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DIALOG(R)File 351:Derwent WPI

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Electrical energy supply system for body implant - induces current in coil under skin connected to implant and acting as secondary of transformer

Patent Assignee: HOH G (HOHG-I)

Inventor: HOEN G

Number of Countries: 001 Number of Patents: 001

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|------------|------|----------|-------------|------|------|----------|
| DE 2730304 | A | 19790125 | | | | 197905 B |

Priority Applications (No Type Date): DE 2730304 A 19770705

Abstract (Basic): DE 2730304 A

The system delivers electrical energy to an electrical unit implanted in a living organism, and is partic. for charging an implanted secondary cell. A current is induced in a coil implanted beneath the skin (15) and connected to the electrical unit (1). This coil functions as the secondary (2) of a transformer.

An a.c. current is passed through the primary (3) of the same transformer (7) above the skin. The coils can each be wound onto half a core (4, 5) of ferromagnetic material. The half-cores can each be secured to a pressure plate of relatively large area and non-magnetic material, shaped to suit the body.

Title Terms: ELECTRIC; ENERGY; SUPPLY; SYSTEM; BODY; IMPLANT; INDUCE; CURRENT; COIL; SKIN; CONNECT; IMPLANT; ACT; SECONDARY; TRANSFORMER

Index Terms/Additional Words: HEART; PACEMAKER

Derwent Class: P34; S05; V02; X12; X24

International Patent Class (Additional): A61N-001/36; H01F-007/02

File Segment: EPI; EngPI

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